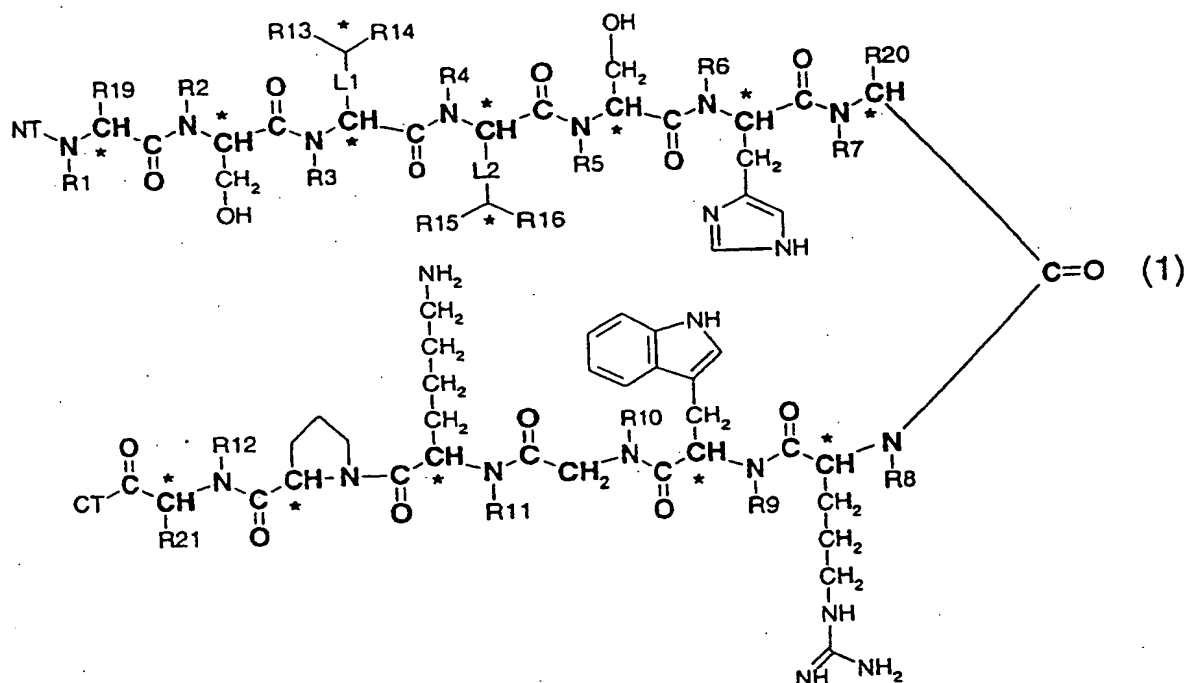


Amendments to the Claim:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 (currently amended). A compound of general formula (1):



wherein R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11 and R12 are selected independently ~~from each other~~ from H and methyl, ~~with H being preferred,~~

and wherein R13, R14, R15 and R16 are selected independently ~~from each other~~ from H and alkyl, ~~in particular alkyl selected from methyl, ethyl, propyl, isopropyl,~~ and wherein optionally one hydrogen in R13 and one hydrogen in R14 is exchanged for a bond between R13 and R14, and wherein optionally one hydrogen in R15 and one hydrogen in R16 is exchanged for a bond between R15 and R16, and wherein L1 and L2 are linkers which are independently selected from the group consisting of single bond, methyl, and

ethyl, ~~with single bond being preferred,~~
 and wherein R19, R20 and R21 are selected independently from each
 other from H and -CH₂X, where X is H, alkyl, substituted alkyl,
 heteroalkyl, substituted heteroalkyl, alkenyl, substituted
 alkenyl, heteroalkenyl, substituted heteroalkenyl, alkynyl,
 substituted alkynyl, heteroalkynyl, substituted heteroalkynyl,
 cycloalkyl, substituted cycloalkyl, cycloheteroalkyl, substitute
 cycloheteroalkyl, cycloalkenyl, substitute cycloalkenyl,
 cycloheteroalkenyl, substituted cycloheteroalkenyl, aryl,
 substituted aryl, heteroaryl, substituted heteroaryl, and
 functional group Q, where Q is selected from the group consisting
of amino, alkylamino, dialkylamino, arylamino, arylazido,
 heteroarylamino, heteroarylazido, hydroxy, alkylhydroxy,
 fluorinated alkylhydroxy, cyano, carboxy, alkylcarboxy,
 arylcarboxy, halogen, nitro, hydroxylamino, acyl, fluorinated
 acyl, nitroso, sulfonyl, sulfinyl, thio, alkylthio, and arylthio,
 and wherein NT is selected from H, hydroxyl, alkyl, aminoacid,
 aminoacid analogue, polypeptide and functional group Q, and CT
 is selected from hydrogen, hydroxyl, alkyl, aminoacid, aminoacid
 analogue, polypeptide and functional group Q, and wherein each
 asymmetric center (*) is in R or S configuration;
~~the compound optionally possessing one or several of the~~
~~following properties:~~

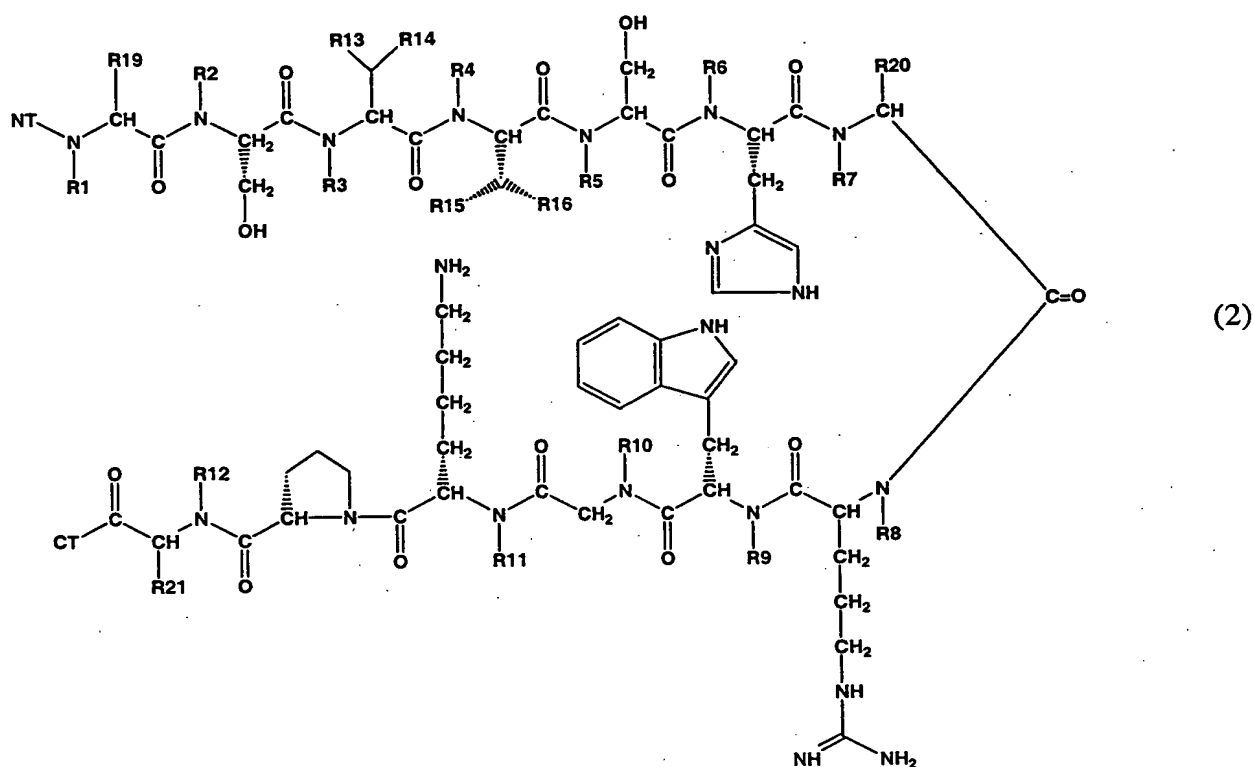
- ~~a) showing high affinity for MCI receptors, and/or~~
- ~~b) showing high selectivity for MCI receptors, and/or~~
- ~~c) showing high capacity to stimulate the second messenger cAMP, and/or~~
- ~~d) being an effective inhibitor of NO production.~~

2 (original). The compound of claim 1, wherein R20 is phenyl.

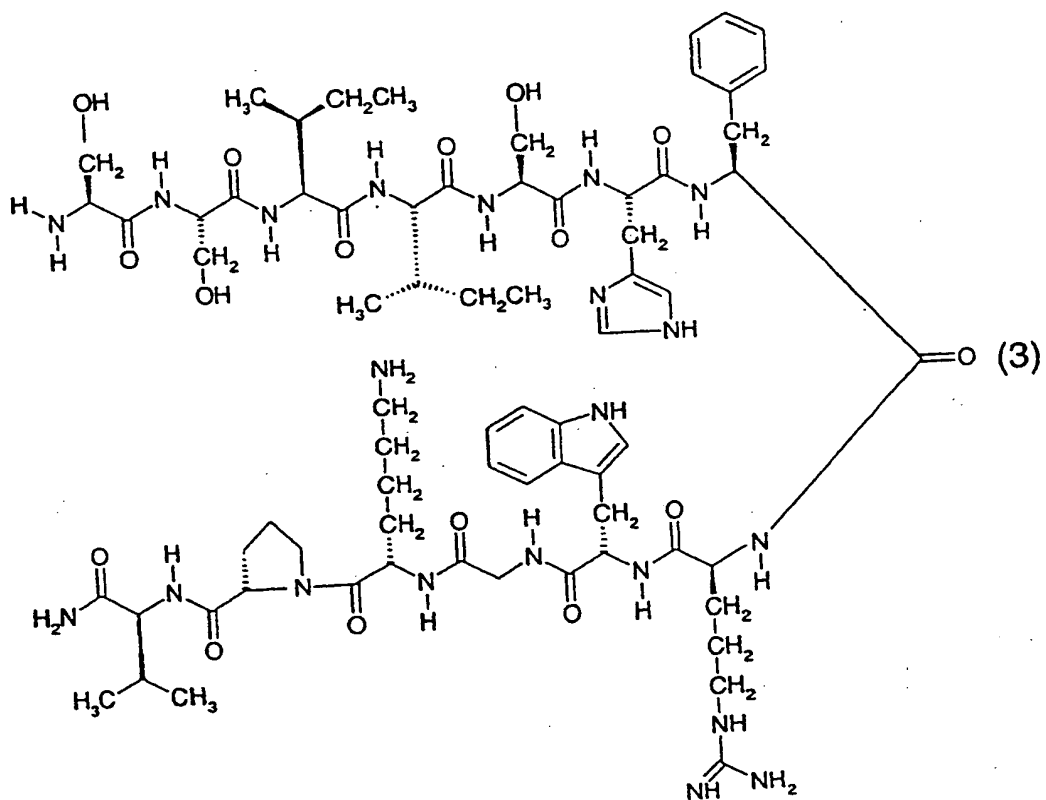
3 (previously presented) The compound of claim 1, wherein one or several of the nitrogens of the peptide backbone have been exchanged for carbon substituted with hydrogen, and/or wherein one or several of the oxygens of the carbonyl groups of the

peptide backbone has been exchanged for two hydrogens.

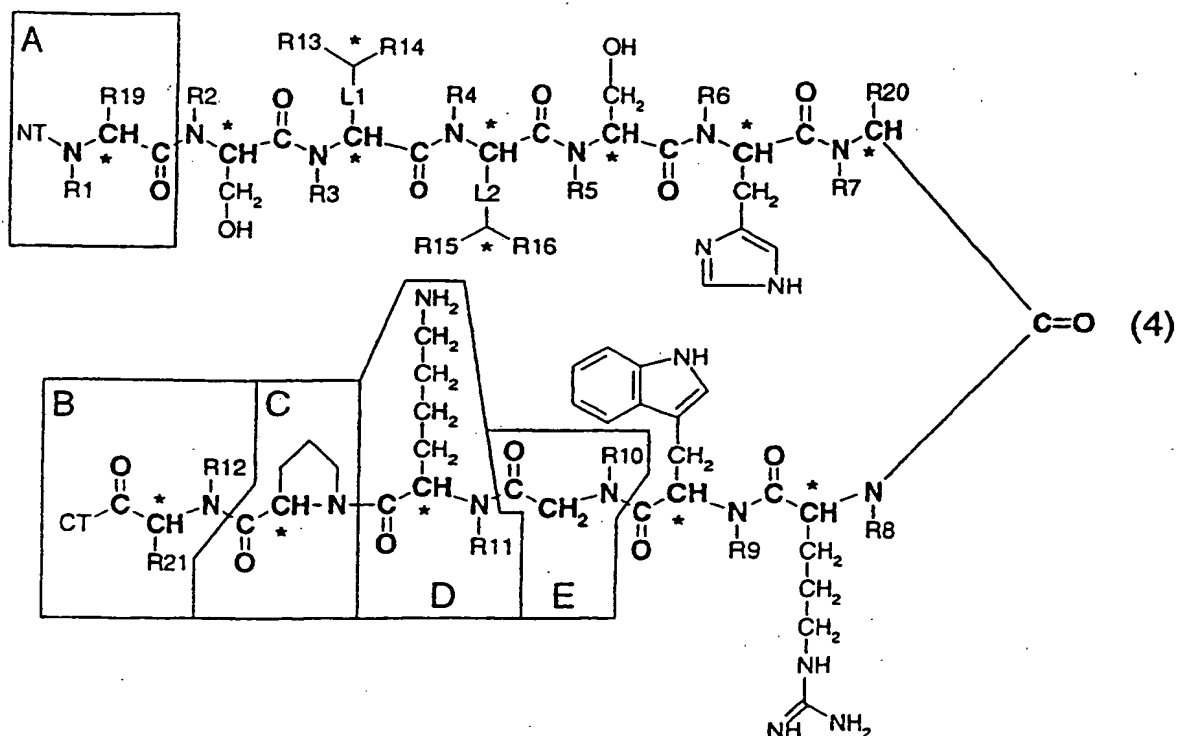
4 (previously presented). The compound of claim 1, having the stereomeric conformation given in the general formula (2):



5 (original). A compound according to claim 1, of formula
(2) (SEQ ID NO:1):



6 (original). A compound according to claim 1, of the general formula (4):



wherein moiety A is optionally exchanged for hydrogen, hydroxyl, alkyl, aminoacid, aminoacid analogue, polypeptide, or functional group,

wherein moiety B is optionally exchanged for hydrogen, hydroxyl, alkyl, aminoacid, aminoacid analogue, polypeptide, or functional group,

wherein optionally moiety C is exchanged for aminoacid or aminoacid analogue,

wherein optionally moiety D is exchanged for aminoacid or aminoacid analogue,

and wherein optionally moiety E is exchanged for aminoacid or aminoacid analogue.

7 (previously presented). A compound according to claim 1, wherein one or several of R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11 and R12 are selected to be methyl, whereas the rest is

selected to be hydrogen, the selections being made so as to prevent or decelerate breakdown by proteases and/or peptidases.

8 (currently amended). A compound according to claim 1, wherein less than 6, ~~preferably less than 5, more preferred less than 4 and preferably less than 2, and most preferred none of the~~ R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, R11 and R12 are methyl.

9 (currently amended). A compound comprising the sequence Ser-Ser-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-05) (SEQ ID NO:1), wherein the amino-acids are all L-amino-acids; or a compound comprising the sequence:
Ser-Ser-Ile-Ile-Ser-His-dPhe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-09)
(SEQ ID NO:2).

10 (previously presented). A compound comprising one of the following sequences:

Ser-Ser-Ile-Ile-Ser-His-dPhe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-09) (SEQ ID NO:2),
Tyr-Ser-Ser-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-30) (SEQ ID NO:3),
Tyr-Ser-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-31) (SEQ ID NO:4),
Ser-Ser-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-Tyr-NH₂ (MS-32) (SEQ ID NO:5),
Ser-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-33) (SEQ ID NO:6),
Thr-Ser-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-34) (SEQ ID NO:7),
Ser-Thr-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-35) (SEQ ID NO:8),
Ser-Ser-Val-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-36) (SEQ ID NO:9),
Ser-Ser-Ile-Val-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-37) (SEQ ID NO:10),
Ac-Ser-Ser-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-38) (SEQ ID NO:11),
dSer-Ser-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-39)

(SEQ ID NO:12),

NMeSer-Ser-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-40) (SEQ ID NO:13),

Ser-Ser-Ile-Ile-Ser-His-Phe-Arg-Trp-Gly-Lys-Pro-NMeVal-NH₂ (MS-41) (SEQ ID NO:14) or

Ser-Ser-Ile-Ile-Ser-His-NMedPhe-Arg-Trp-Gly-Lys-Pro-Val-NH₂ (MS-42) (SEQ ID NO:15).

11 (previously presented). A compound according to claim 1, in which R20 is -CH₂X, wherein X is aryl, substituted aryl, heteroaryl, substituted heteroaryl, phenyl or substituted phenyl, wherein the compound is capable of activating MC1-receptors.

12 (previously presented). A compound according to claim 1, in which R20 is -CH₂X, wherein X is aryl, substituted aryl, heteroaryl, substituted heteroaryl, naphthalene, or substituted naphthalene, wherein the compound is capable of blocking MC1-receptors.

13 (currently amended). A compound according to claim ~~±~~ 9, which inhibits NO (nitric oxide) production, or the formation of nitrite.

14 (currently amended). A compound according to claim ~~±~~ 9, which is immunomodulatory.

15 (currently amended). A compound according to claim ~~±~~ 9, which ameliorates, ~~prevents~~ or inhibits contact hypersensitivity.

16 (currently amended). A compound according to claim ~~±~~ 9, which inhibits sensitization by a hapten, ~~a preferred hapten being 2,4-dinitrofluorobenzene (DNFB)~~.

17 (currently amended). A compound according to claim ~~±~~ 9, which has ~~an effect on induction of the ability to induce~~ hapten tolerance, ~~a preferred hapten being 2,4-dinitrofluorobenzene (DNFB)~~.

18 (currently amended). A compound according to claim ~~±~~ 9, which ameliorates, ~~prevents~~ or inhibits formation of oedema, ~~in particular oedema associated with allergic reactions or inflammation~~.

19 (currently amended). A compound according to claim ~~±~~ 9,

which ameliorates, ~~prevents~~ or inhibits inflammation of blood ~~vessels~~ vessels or vasculitis.

20 (currently amended). A compound according to claim ~~±~~ 9, which normalizes blood cell counts, said blood cell counts prior to administration of the compound deviating from the normal.

21 (currently amended). A compound according to claim ~~±~~ 9, ~~wherein the compound~~ which is capable of decreasing the formation of interleukin 1 (IL-1), interleukin 6 (IL-6), and/or tumour necrosis factor α (TNF- α), to afford decreased production of nitric oxide and/or to downregulate the activity of nitric oxide synthase (NOS).

22 (currently amended). A compound according to claim ~~±~~ 9, ~~wherein the compound~~ which is capable of stimulating the production of interleukin 8 (IL-8) and/or interleukin 10 (IL-10).

23 (cancelled).

24 (currently amended). An acid salt of any one of the compounds of claim ~~±~~ 9.

25-26 (cancelled).

27 (currently amended). A fusion protein comprising ~~one or several copies of the sequence of a compound according to claim~~ ± at least one sequence corresponding to a compound according to claim 9 where, if it comprises a plurality of such sequences, the sequences may be the same or different.

28-64 (cancelled).

65 (new). A pharmaceutical composition comprising a compound according to claim 9 together with a pharmaceutically acceptable carrier.

66 (new). A compound according to claim 16, said hapten being 2,4-dinitrofluorobenzene (DNFB).

67 (new). A compound according to claim 17, said hapten being 2,4-dinitrofluorobenzene (DNFB).

68 (new). A compound according to claim 9, which ameliorates or inhibits formation of oedema, said oedema being associated with allergic reactions or inflammation.

69 (new). The compound of claim 1 which is capable of

binding MC1 receptor in vitro.

70 (new). The compound of claim 69 which is capable of activating MC1 receptor in vitro.

71 (new). The compound of claim 69 which is capable of blocking MC1 receptor in vitro.

72 (new). The compound of claim 1 which is capable of stimulating second messenger cAMP in vitro.

73 (new). The compound of claim 1 which is capable of inhibiting NO production in vitro.

74 (new). The compound of claim 9 which is capable of binding MC1 receptor in vitro.

75 (new). The compound of claim 9 which is capable of activating MC1 receptor in vitro.

76 (new). The compound of claim 9 which is capable of blocking MC1 receptor in vitro.

77 (new). The compound of claim 9 which is capable of stimulating second messenger cAMP in vitro.

78 (new). The compound of claim 9 which is capable of inhibiting NO production in vitro.